

COMPOSITIONS AND METHODS FOR HYDROGEN STORAGE AND
RECOVERY

ABSTRACT

[0039] Disclosed herein is a hydrogen storage composition comprising a catalyst composition disposed upon a storage composition; wherein the catalyst composition comprises an alloy of calcium, barium, platinum, palladium, nickel, titanium, chromium, manganese, iron, cobalt, copper, silicon, germanium, rhodium, rhodium, ruthenium, molybdenum, niobium, zirconium, yttrium, barium, lanthanum, hafnium, tungsten, rhenium, osmium, iridium, or a combination comprising at least one of the foregoing metals.